Bottcher, Helen

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Sent: Thursday, February 26, 2015 11:46 AM
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Another way to calculate the naphthalene mass in the FPA is to use just the naphthalene fraction in the 2014 NAPL samples. This bypasses the problem of double counting in adding all the various NAPL components. These 2014 naphthalene in NAPL results are shown in Table 2c. It ranges from a low of 86,000 mg/kg (mass fraction: 0.086) to a high of 150,000 mg/kg (mass fraction: 0.15). The average is shown in Table 4, NAPL Component Half-life Estimates. Where the mass fraction average is 0.1212.

The Mass of Naphthalene at the site is calculated as below:

Naphthalene mass = 679,000 gallons of NAPL x 3.785 liters/gallon x 0.98 kg/L x 0.1212 mass of Naphthalene/mass of NAPL = 305,000 kg

The report calculated a Naphthalene mass of 1.1 million kg.

Please let me know if you have any questions.